

Remarks

Claims 1-6 and 8-13 are pending in this case. Claim 7 was previously canceled. Applicants respectfully disagree that an extra (is in formula 2 of Claim 1. Applicants are trying to show that $(O(CR_3Y_{2-3}))_i$ is one of the units of Formula 2 and believe that it does serve this purpose. The Examiner also thought the term $-R(OSiR_3)_2$ was incorrect in claim 3. Applicants would like to point out that the R group is selected from hydrogen and a monovalent hydrocarbon group and so the R group and the two $(OSiR_3)$ groups are bonded to silicon in the group $-RSi(OSiR_3)_2$ therefore the silicon has three groups bonded to it and a – to illustrate the bond to the Z group.

The Examiner rejected claims 1, 2, 6, 9-11, and 13 under 35 U.S.C. §102(e) as being anticipated by Nakayoshi (US2002/0099114 A1). Applicants respectfully disagree. The present invention comprises a method of making a branched polymer starting with a reaction product of an SiH functional PDOS where at least one X group of Formula (I) is a $-Z-R^4$ group and a compound having an aliphatic unsaturation; and then equilibrating this reaction product with an endblocker and optionally a siloxane hydrolyzate or cyclic siloxane with catalyst to make a branched polymer with no SiH functionality. The present method causes the reaction product of the cyclic siloxanes and aliphatically unsaturated compound used as a starting material of the present invention to ring open and then the endblocker and optional hydrolyzate/cyclics chain extend and endblock the branched polymer. This method and compositions using materials made by this method are not taught by Nakayoshi et al. Nakayoshi et al react Si-H groups with groups having aliphatic unsaturation. There is no teaching of then equilibrating these polymers. Therefore, Nakayoshi et al does not anticipate claims 1, 2, 6, 9-11, and 13. For these reasons, Applicants respectfully request that the Examiner withdraw this rejection.

The Examiner rejected claims 1-3, 6, 8-11, and 13 under 35 U.S.C. §102(b) as being anticipated by Fujiki et al (US5,536,803). Applicants respectfully disagree. The present invention comprises a method of making a branched polymer starting with a reaction product of an SiH functional PDOS where at least one X group of Formula (I) is a $-Z-R^4$ group and a compound

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having an aliphatic unsaturation; and then equilibrating this reaction product with an endblocker and optionally a siloxane hydrolyzate or cyclic siloxane with catalyst to make a branched polymer with no SiH functionality. The present method causes the reaction product of the cyclic siloxanes and aliphatically unsaturated compound used as a starting material of the present invention to ring open and then the endblocker and optional hydrolyzate/cyclics chain extend and endblock the branched polymer. This method and compositions using materials made by this method are not taught by Fujiki et al. Fujiki et al reacts Si-H groups with groups having aliphatic unsaturation. There is no teaching of then equilibrating these polymers. Therefore, Fujiki et al does not anticipate claims 1-3, 6, 8-11, and 13. For these reasons, Applicants respectfully request that the Examiner withdraw this rejection.

The Examiner rejected claims 1, 6, 8 and 13 under 35 U.S.C. §102(b) as being anticipated by Krahne et al (US6,127,502). Applicants respectfully disagree. The present invention comprises a method of making a branched polymer starting with a reaction product of an SiH functional PDOS where at least one X group of Formula (I) is a $-Z-R^4$ group and a compound having an aliphatic unsaturation; and then equilibrating this reaction product with an endblocker and optionally a siloxane hydrolyzate or cyclic siloxane with catalyst to make a branched polymer with no SiH functionality. The present method causes the reaction product of the cyclic siloxanes and aliphatically unsaturated compound used as a starting material of the present invention to ring open and then the endblocker and optional hydrolyzate/cyclics chain extend and endblock the branched polymer. This method and compositions using materials made by this method are not taught by Krahne et al. Krahne et al reacts Si-H groups with groups having aliphatic unsaturation. There is no teaching of then equilibrating these polymers. Therefore, Krahne et al does not anticipate claims 1, 6, 8 and 13. For these reasons, Applicants respectfully request that the Examiner withdraw this rejection.

The Examiner also rejected claims 1-6, 9-11, and 13 under 35 U.S.C. §102(e) as being anticipated by Asch et al. (US application 2006/0111491). Applicants respectfully disagree with the rejection. The present invention comprises a method of making a branched polymer starting

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with a reaction product of an SiH functional PDOS where at least one X group of Formula (I) is a $-Z-R^4$ group and a compound having an aliphatic unsaturation; and then equilibrating this reaction product with an endblocker and optionally a siloxane hydrolyzate or cyclic siloxane with catalyst to make a branched polymer with no SiH functionality. The present method causes the reaction product of the cyclic siloxanes and aliphatically unsaturated compound used as a starting material of the present invention to ring open and then the endblocker and optional hydrolyzate/cyclics chain extend and endblock the branched polymer. This method and compositions using materials made by this method are not taught by Asch et al. Therefore, Asch et al does not anticipate claims 1-6, 9-11, and 13. For these reasons, Applicants respectfully request that the Examiner withdraw this rejection.

Applicants would like to bring to the Examiner's attention the fact that office actions/rejections have been also made in copending US applications No. 10/512,750, No. 10/512,953 and No. 10/538,680.

This reply is being submitted within the period for response to the outstanding office action. Although the applicants believe in good faith that no extensions of time are needed, the applicants hereby petition for any necessary extensions of time. You are authorized to charge deposit account 04-1520 for any fees necessary to maintain the pendency of this application. You are authorized to make any additional copies of this sheet needed to accomplish the purposes provided for herein and to charge any fee for such copies to deposit account 04-1520.

Respectfully Submitted,
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